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APPLICATION NO	0.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/696,751		10/25/2000	Nickolai Alexandrov	2750-1309P	3026
2292	7590	03/11/2003			
		RT KOLASCH &	EXAMINER		
	O BOX 747 ALLS CHURCH, VA 22040-0747			SHEINBERG, MONIKA B	
		•		ART UNIT	PAPER NUMBER
				1634	
			DATE MAILED: 03/11/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)				
	Office Action Surrey	09/696,751	ALEXANDROV ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Monika B Sheinberg	1634				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
THE I - Exter after - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. sisions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing of patent term adjustment. See 37 CFR 1.704(b).	within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication.				
1) <u></u>	Responsive to communication(s) filed on						
2a)⊟	Responsive to communication(s) filed on This action is FINAL . 2b) \(\bigcirc \) This	· s action is non-final.					
3)	, 						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims							
4)🖂	Claim(s) 1-20 is/are pending in the application.						
4	4a) Of the above claim(s) is/are withdraw	n from consideration.					
5) Claim(s) is/are allowed.							
6)	6) Claim(s) is/are rejected.						
7)	Claim(s) is/are objected to.						
	Claim(s) <u>1-20</u> are subject to restriction and/or e	lection requirement.					
	on Papers						
	he specification is objected to by the Examiner.						
10) <u> </u>	he drawing(s) filed on is/are: a)□ accept						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
	he oath or declaration is objected to by the Exa	miner.					
	nder 35 U.S.C. §§ 119 and 120						
	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f).				
	All b) Some * c) None of:						
	1. Certified copies of the priority documents						
	2. Certified copies of the priority documents						
	3. Copies of the certified copies of the priorit application from the International Bure see the attached detailed Office action for a list of	eau (PCT Rule 17.2(a)).	_				
 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 							
Attachment(priority diluct 55 0.3.0, 99 120 t	яни/ог 12 Г. ′				
1) Notice 2) Notice	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449) Paper No(s)	Nuice of Informal Pa	PTO-413) Paper No(s) atent Application (PTO-152)				
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Restriction/Election Requirement

Restriction to one of the following inventions is required under 35 U.S.C. § 121:

- I. Claims 1-10, drawn to polynucleotides and compositions containing same, classified in Class 536, subclass 23.1; Class 435, subclasses 243, 320.1, and 325; and Class 514, subclass 44. *If this group is elected, then the below sequence election requirement also is required.*
- II. Claim 11, drawn to polypeptides, classified in Class 530, subclass 350. If this group is elected, then the below sequence election requirement also is required.
- III. Claim 12, drawn to an antibody, classified in Class 530, subclass 387.1. If this group is elected, then the below sequence election requirement also is required.
- IV. Claims 13 and 14, drawn to methods of cell transformation, classified in Class 435, subclass 440. *If this group is elected, then the below sequence election requirement also is required.*
- V. Claim 15, drawn to methods of transcription and/or translation, classified in Class 435, subclass 91.1 and 69.1. *If this group is elected, then the below sequence election requirement also is required.*
- VI. Claim 16, drawn to methods of nucleic acid detection, classified in Class 435, subclass 6. If this group is elected, then the below sequence election requirement also is required.
- VII. Claims 17-20, drawn to a plant or plant cell, classified in Class 435, subclass 418; and Class 800, subclass 295. If this group is elected, then the below sequence election requirement also is required, along with a species election after it.

The inventions are distinct, each from the other because of the following reasons:

The inventions of Groups (I, IV, V, VI, and VII); Group II; and Group III are independent inventions because they are directed to different chemical types regarding the critical limitations therein. For Groups I, IV, V, VI, and VII, the critical feature is nucleic acids; for Group II the critical feature is a polypeptide; and for Group III the critical feature is an

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antibody. It is acknowledged that various processing steps may cause a polypeptide of Group II to be directed as to its synthesis by a polynucleotide of Groups I, IV, V, VI, and VII, however, the completely separate chemical types of the inventions of the nucleic acid, polypeptide, and antibody Groups supports the undue search burden if both were examined together. Additionally, polynucleotides, polypeptides, and antibodies have been most commonly, albeit not always, separately characterized and published in the Biochemical literature, thus significantly adding to the search burden if examined together as compared to being searched separately. Also, it is pointed out that processing that may connect two Groups does not prevent them from being viewed as distinct because enough processing can result in producing any composition from any other composition if the processing is not limited as to additions, subtractions, enzyme action, etc. Thus, the three Groupings of (I, IV, V, VI, and VII); (II); and (III) are independent and/or distinct invention types for restriction purposes.

The inventions of Group I and Groups IV, V, VI, VII are related as product and distinct processes of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (M.P.E.P. § 806.05(h)). In the instant case the nucleic acids of Group I can be used in the distinct processes of the inventions of Groups IV, V, VI, and VII. The use of Group IV is directed to cell transformation; the use of Group V is directed to transcription and /or translation modulation; the use of Group VI is directed to detection; and the use of Group VII is directed to a plant or plant cell. Alternatively, the nucleic acids of Group I can be used in antisense therapy which is also a clearly distinct usage of such nucleic acids.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Sequence Election Requirement Applicable to All Groups:

In addition, each Group detailed above reads on patentably distinct sequences. Each sequence is patentably distinct because they are unrelated sequences, and a further restriction is applied to each Group. For an elected Group drawn to amino acid sequences, the Applicant(s)

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must further elect a single amino acid sequence. For an elected Group drawn to nucleotide sequences, the Applicant(s) must elect a single nucleic acid sequence (See MPEP 803.04). It is noted that the multitude of sequence submissions for examination has resulted in an undue search burden if more than one nucleic acid sequence is elected, thus making the previous waiver for up to 10 elected nucleic acid sequences effectively impossible to reasonably implement. MPEP 803.04 states:

Nucleotide sequences encoding different proteins are structurally distinct chemical compounds and are unrelated to one another. These sequences are thus deemed to normally constitute independent and distinct inventions with the meaning of 35 U.S.C. 121. Absent evidence to the contrary, each such nucleotide sequence is presumed to represent an independent and distinct invention, subject to a restriction requirement pursuant to 35 U.S.C. 121 and 37 CFR 1.141 et seq. Examination will be restricted to only the elected sequence.

It has been determined that 1(ONE) sequence constitutes a reasonable number for examination purposes under the present conditions. At present the huge number of submissions of claims directed to various sequences, such as nucleic acids or polypeptides, is so large that the election of 1 (one) sequence of this type is now deemed to be practically appropriate so as to not overwhelm the examination and search processes for such claims.

Examination will be restricted to only the elected sequence.

Species Election Requirement Applicable to Group VII:

This application contains claims directed to the following patentably distinct species of the claimed invention: a) cell of a plant (claims 17 and 18); b) a regenerated plant (claims 17-20); and c) a plant partially containing exogenous nucleic acids such as by grafting (claims 17 and 18).

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 17 and 18 are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

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Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is advised that the response to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR § 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 C.F.R. § 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a diligently-filed petition under 37 C.F.R. § 1.48(b) and by the fee required under 37 C.F.R. § 1.17(h).

Inquiries

Papers related to this application may be submitted to Technical Center 1600 by facsimile transmission. Papers should be faxed to Technical Center 1600 via the PTO Fax Center located in Crystal Mall 1. The faxing of such papers must conform with the notices published in the Official Gazette, 1096 OG 30 (November 15, 1988), 1156 OG 61 (November 16, 1993), and 1157 OG 94 (December 28, 1993) (See 37 CFR § 1.6(d)). The CM1 Fax Center number is (703) 308-4242.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Monika B. Sheinberg, whose telephone number is (703) 306-0511. The examiner can normally be reached on Monday-Friday from 1 P.M to 8 P.M. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Jones, can be reached on (703) 308-1152.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to Patent Analyst, Chantae Dessau, whose telephone number is (703) 605-1237, or to the Technical Center receptionist whose telephone number is (703) 308-0196.

February 27, 2003

Monika B. Sheinberg Art Unit 1634

LIES

JEHANNE SOUAYA PATENT EXAMINER

3/4/03